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## AMENDMENTS TO THE CLAIMS

- 1. (Currently Amended) A composition An additive suitable for use in the manufacture of a polyurethane polymer foam, the additive comprising:
  - (a) a polyol,
- (b) a benzotriazole, the benzotriazole being present in the composition additive in an amount of about 0.5 to about 6.0 parts per hundred parts of the polyol (php),
- (c) a lactone-based antioxidant having a 3-phenylbenzofuran-2-one structure, the lactone-based antioxidant being present in the composition additive in an amount of about 0.05 to about 1.0 php, and
  - (d) a fourth component selected from the group consisting of:
    - (i) about 0.05 to about 1.0 php of a secondary phenylamine.
    - about 0.05 to about 2.0 php of a hindered phenol, and (ii)
  - a combination of about 0.05 to about 1.0 php of a secondary (iii) phenylamine and about 0.05 to about 2.0 php of a hindered phenol, and an isocyanate.
- 2. (Currently Amended) The composition additive of Claim 1 wherein said fourth component is a secondary phenylamine.
  - 3-16. (Canceled)
- 17. (Currently Amended) The composition additive of Claim 1 wherein said fourth component is a hindered phenol.
- 18. (Currently Amended) The composition additive of claim 1, wherein said fourth component is a combination of a secondary phenylamine and a hindered phenol.
- (Currently Amended) The composition additive of claim 1, wherein said 19. additive comprises:
  - (a) a polyol,
  - about 0.8 to about 2.0 php of a benzotriazole, (b)

- (c) about 0.1 to about 0.7 php of a lactone-based antioxidant having a 3-phenylbenzofuran-2-one structure,
  - (d) about 0.1 to about 0.5 php of a secondary phenylamine, and
  - (e) about 0.1 to about 1.5 php of a hindered phenol, and
    - (f) an isocyanate.
- 20. (Currently Amended) The <u>composition</u> additive of claim 19, wherein said additive comprises:
  - (a) a polyol,
  - (b) about 0.8 to about 2.0 php of a benzotriazole,
- (c) about 0.15 to about 0.3 php of a lactone-based antioxidant having a 3-phenylbenzofuran-2-one structure,
  - (d) about 0.1 to about 0.5 php of a secondary phenylamine, and
  - (e) about 0.25 to about 0.65 php of a hindered phenol, and
  - (f) an isocyanate.
- 21. (Currently Amended) The <u>composition</u> additive of claim 1 wherein said benzotriazole conforms to the structure of Formula (I)

(1)

$$R_1$$
 OH  $R_2$ 

wherein  $R_1$ ,  $R_2$ , and  $R_3$  are individually selected from the group consisting of hydrogen, groups conforming to the formula  $C_xH_yO_z$ , where x, y, and z are from 0 to 30, and halogens.

22. (Currently Amended) The <u>composition</u> additive of claim 19 wherein said benzotriazole conforms to the structure of Formula (I)

(I)

$$R_1$$
 OH  $R_2$   $R_3$ 

wherein  $R_1$ ,  $R_2$ , and  $R_3$  are individually selected from the group consisting of hydrogen, groups conforming to the formula  $C_xH_yO_z$ , where x, y, and z are from 0 to 30, and halogens.

23. (Currently Amended) The <u>composition</u> additive of claim 20 wherein said benzotriazole conforms to the structure of Formula (I)

(1)

wherein  $R_1$ ,  $R_2$ , and  $R_3$  are individually selected from the group consisting of hydrogen, groups conforming to the formula  $C_xH_yO_z$ , where x, y, and z are from 0 to 30, and halogens.

24. (Currently Amended) The <u>composition</u> additive of claim 1 wherein said lactone-based antioxidant conforms to the structure of Formula (II)

**(II)** 

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wherein  $R_4$ ,  $R_5$ ,  $R_6$ , and  $R_7$  are individually selected from the group consisting of hydrogen and  $C_{1-30}$  alkyl groups.

25. (Currently Amended) The <u>composition</u> additive of claim 19 wherein said lactone-based antioxidant conforms to the structure of Formula (II)

**(II)** 

$$R_{r}$$

wherein  $R_4$ ,  $R_5$ ,  $R_6$ , and  $R_7$  are individually selected from the group consisting of hydrogen and  $C_{1-30}$  alkyl groups.

26. (Currently Amended) The <u>composition</u> additive of claim 20 wherein said lactone-based antioxidant conforms to the structure of Formula (II)

**(II)** 

wherein  $R_4$ ,  $R_5$ ,  $R_6$ , and  $R_7$  are individually selected from the group consisting of hydrogen and  $C_{1-30}$  alkyl groups.

27. (Currently Amended) The <u>composition</u> additive of claim 1 wherein the secondary phenylamine conforms to the structure of Formula (IV)

(IV)

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wherein  $R_9$  and  $R_{10}$  are individually selected from the group consisting of hydrogen, groups conforming to the formula  $C_xH_yO_z$ , where x, y, and z are from 0 to 30, and halogens.

28. (Currently Amended) The <u>composition</u> additive of claim 19 wherein the secondary phenylamine conforms to the structure of Formula (IV)

(IV)

wherein  $R_9$  and  $R_{10}$  are individually selected from the group consisting of hydrogen, groups conforming to the formula  $C_xH_yO_z$ , where x, y, and z are from 0 to 30, and halogens.

29. (Currently Amended) The <u>composition</u> additive of claim 20 wherein the secondary phenylamine conforms to the structure of Formula (IV)

(IV)

wherein  $R_9$  and  $R_{10}$  are individually selected from the group consisting of hydrogen, groups conforming to the formula  $C_xH_yO_z$ , where x, y, and z are from 0 to 30, and halogens.

30. (Currently Amended) The <u>composition</u> additive of claim 1 wherein the hindered phenol conforms to the structure of Formula (III)

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**(III)** 

wherein R<sub>8</sub> is selected from the group consisting of hydrogen, groups conforming to the formula C<sub>x</sub>H<sub>y</sub>O<sub>z</sub>, where x, y, and z are from 0 to 30, and halogens.

31. (Currently Amended) The composition additive of claim 19 wherein the hindered phenol conforms to the structure of Formula (III)

**(III)** 

wherein R<sub>8</sub> is selected from the group consisting of hydrogen, groups conforming to the formula  $C_xH_yO_z$ , where x, y, and z are from 0 to 30, and halogens.

32. (Currently Amended) The composition additive of claim 20 wherein the hindered phenol conforms to the structure of Formula (III)

**(III)** 

wherein  $R_8$  is selected from the group consisting of hydrogen, groups conforming to the formula  $C_xH_yO_z$ , where x, y, and z are from 0 to 30, and halogens.

- 33. (Currently Amended) A composition comprising:
- (a) a polyol,
- (b) a benzotriazole,
- (c) a lactone-based antioxidant having a 3-phenylbenzofuran-2-one structure, and
- (d) a fourth component selected from the group consisting of secondary phenylamines, hindered phenols, and combinations thereof, and
  - (e) an isocyanate.
- 34. (Currently Amended) The composition of claim 33, wherein the composition comprises:
  - (a) the polyol,
- (b) the benzotriazole in an amount of about 0.5 to about 6.0 parts per hundred parts of the polyol (php),
- (c) the lactone-based antioxidant in an amount of about 0.05 to about 1.0 php, and
  - (d) a fourth component selected from the group consisting of:
    - (i) about 0.05 to about 1.0 php of a secondary phenylamine,
    - (ii) about 0.05 to about 2.0 php of a hindered phenol, and
  - (iii) a combination of about 0.05 to about 1.0 php of a secondary phenylamine and about 0.05 to about 2.0 php of a hindered phenol, and (e) an isocyanate.

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